

Memorandum

Thursday, September 03, 2020

TO: Karl Benedict, NHDES
FROM: Chris Fournier, PE, HEB Engineers, Inc.
Andrew O'Sullivan, New Hampshire Department of Transportation
SUBJECT: Response to Request for More Information
NHDES File Number: 2020-01554
Columbia-Colebrook, 42313 – NH Route 3 over Simms Stream
Wetlands Permit Application

The New Hampshire Department of Environmental Services (NHDES) Wetlands Bureau has reviewed the Wetlands Permit Application for work associated with the Columbia-Colebrook (42313) Project at NH Route 3 over Simms Stream in Columbia, New Hampshire and has requested additional information to clarify and complete the application per RSA 482-A-3: XIV(a)(2).

The purpose of this memorandum is to provide responses to the five (5) NHDES comments in narrative and plan/figure formats (see attachments). The *request language* has been included and the comments have been numbered according to the Request for More Information (RFMI) dated August 7, 2020 with responses for each below.

1. NHDES Comment: *Env-Wt 311.04 Application Information. (g) The square feet of wetland impact areas and the linear feet of surface water impact areas for both temporary and permanent impacts based on type of jurisdiction area, including the following: (6) Perennial stream or river; and (7) Stream bank. Proposed impacts located within the bed of river should be distinguished from the proposed impacts located within the 'bank' jurisdiction. Please quantify the square feet and linear feet of permanent and temporary impacts located within each resource area (bed or bank). Impact areas above ordinary high water (OHW) and below Top of Bank (TOB) should be quantified as bank, and areas below OHW should be quantified as perennial stream bed on Wetland Permit Application Page 5 of 9, Section 12-Impact Area and associated plan sheet.*

Response: Impact calculations have been revised in the Wetland Permit Application Page 5 of 9, Section 12 and the associated plan sheet(s) to distinguish between channel impacts (below OHW) and stream bank impact areas (areas below TOB and above OHW). These areas have been classified as R2UB1 and R2 Bank, respectively. Please find a revised plan set, with updated sheets four and five, in Attachment A; and a revised

Page 5 of the NHDES wetlands Permit Application in Attachment B.

2. NHDES Comment: *Please identify whether there will be any work associated with the existing drainage outlet at the southwest corner of bridge (identified per photos) that may require impacts to jurisdictional areas.*

Response: There will be no work at the existing drainage outlet at the southwest corner of the bridge and therefore no additional impacts associated with it. The final grade will match existing grade in this location.

3. NHDES Comment: *The application narrative which was presented at the December 18, 2019 Natural Resource Agency Coordination Meeting indicates "To key the channel protection and keep it in place, the banks and entire channel bed under the bridge will be disturbed; riprap will be removed, existing channel materials will be excavated and stockpiled, and then reinstalled at essentially the same elevation and slope as the existing riverbed, on or top of the stabilized channel. Prior to removing and stockpile the existing riverbed material, the existing configuration of materials will be noted, and replacement will mimic that to the extent practicable", and asserts that "Because the impacted areas will be restored to preconstruction conditions and geometries using native and new materials; and per coordination and discussion at the NHDOT Monthly Natural Resource Agency Coordination Meeting (December 18, 2019) mitigation will not be required and has not been proposed". In accordance with Env-Wt 514.02 Approval Criteria for All Bank/Shoreline Stabilization Projects. (b) Bank/shoreline stabilization shall: (3) Not adversely affect the stream course such that water flow will be transported by the stream channel in a manner that the stream maintains its dimensions, general pattern, and slope with no unnatural raising or lowering of the channel bed elevation along the stream bed profile. Please provide a cross-section/longitudinal plan that identifies the specific work, including existing and proposed conditions, in order for NHDES to confirm proposed work will be restored to preconstruction conditions and geometries with native material, identification of any new materials and their locations, and associated elevations within the stream bed. The information is also necessary to confirm that the hydraulic compatibility of the crossing will not be affected. Please identify how this specific methodology will be transferred per plan and narrative to the Contractor.*

Response: A cross-section/longitudinal plan that identifies the specific work including existing and proposed conditions to verify that the proposed work will be restored to preconstruction conditions and geometries has been included in the Revised Plans (see Attachment A). The plan identifies the location and depth of new materials proposed to be installed below existing grade. The hydraulic compatibility of the crossing will not be affected given the restoration of channel geometry to pre-construction conditions. These pre-construction and post-construction conditions have been detailed in both profile view as well as associated cross sections. All views of the proposed and existing

conditions are given to scale and with specific elevations and should be readily understood by the Contractor.

4. NHDES Comment: *The stream crossing location has been identified within the Highest Ranking Habitat in NHFG Wildlife Action Plan. Discussion during Natural Resource Agency meeting requested considerations for terrestrial wildlife passage to be incorporated into the project design. The project wetland scientist had noted that the existing topography adjacent to and under the bridge provides a suitable pathway for medium- and smaller-sized wildlife to use the bridge for passage under the roadway. Please identify how this passage consideration has been incorporated into the project design through cross-section and longitudinal plans.*

Response: As indicated at the Natural Resource Agency meeting, the existing topography adjacent to and under the bridge provides a suitable pathway for medium- and smaller-sized wildlife passage under existing, preconstruction conditions. The proposed project would maintain the existing topography to allow for the maintenance of the preconstruction wildlife crossing following the completion of work. No adverse changes to the ability for wildlife to pass under the bridge and avoid the roadway are anticipated. See existing and proposed cross-sections in Attachment A.

5. NHDES Comment: *Please note that work is proposed outside of the ROW and Owner/abutter permissions would be required for any proposed work under a project permit. Also note that the Plan notes indicate "Preliminary Plans Subject to Change Date 6/18/20". Please note that in accordance with Env-Wt 307.16 all work shall be done in accordance with the approved plans referenced in Condition #1 of wetland permits. Modifications to the approved plans would require future permit amendment.*

Response: The "Preliminary" stamp has been removed from the plans and work will be constructed as depicted on the plans included in Attachment A. At this time, NHDOT has not been able to secure temporary construction easements however they will be secured prior to construction activities. We anticipate that securing these easements prior to construction will be a condition of the permit.

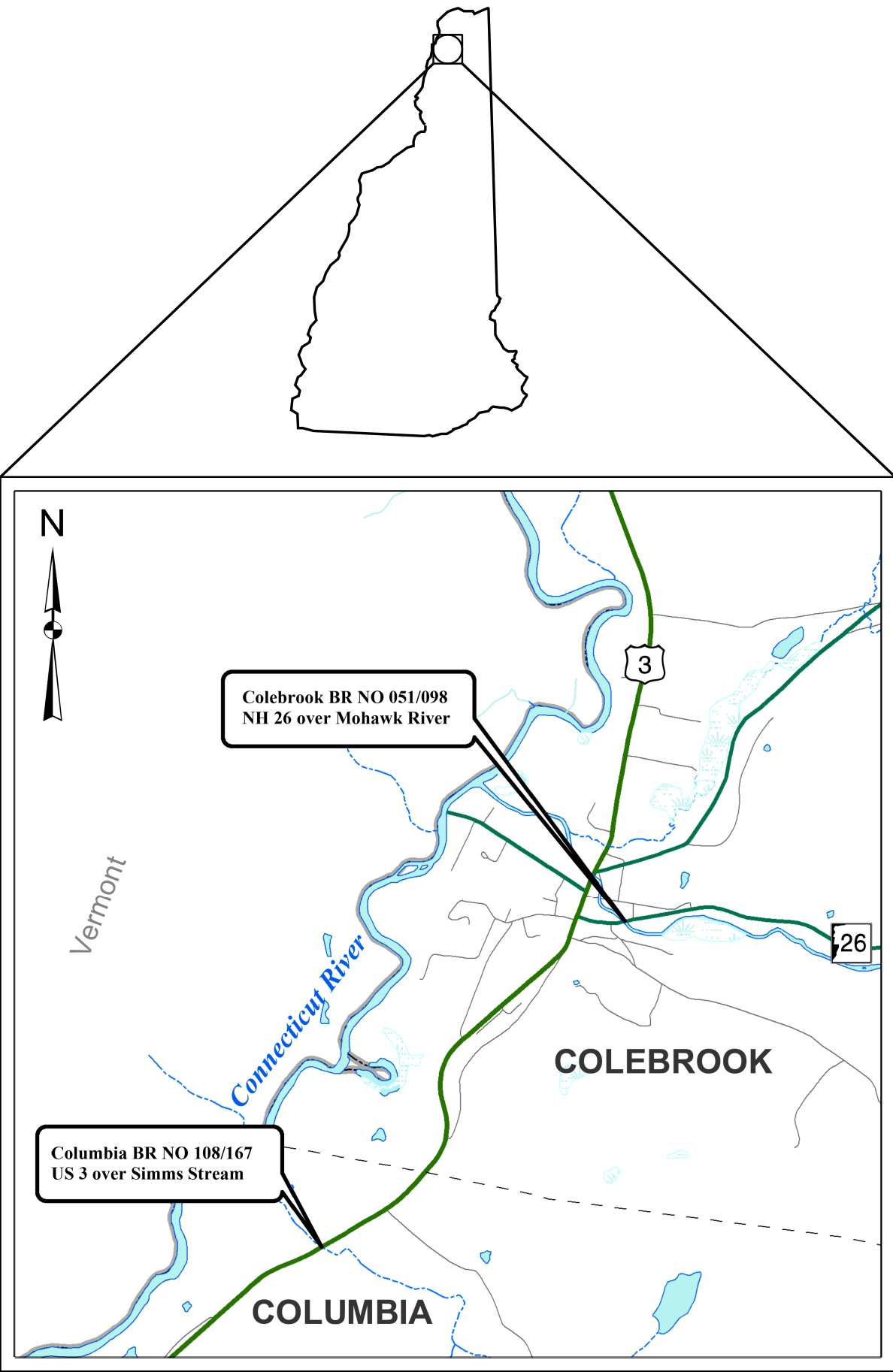
**Attachment A.
Revised Plans**

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION

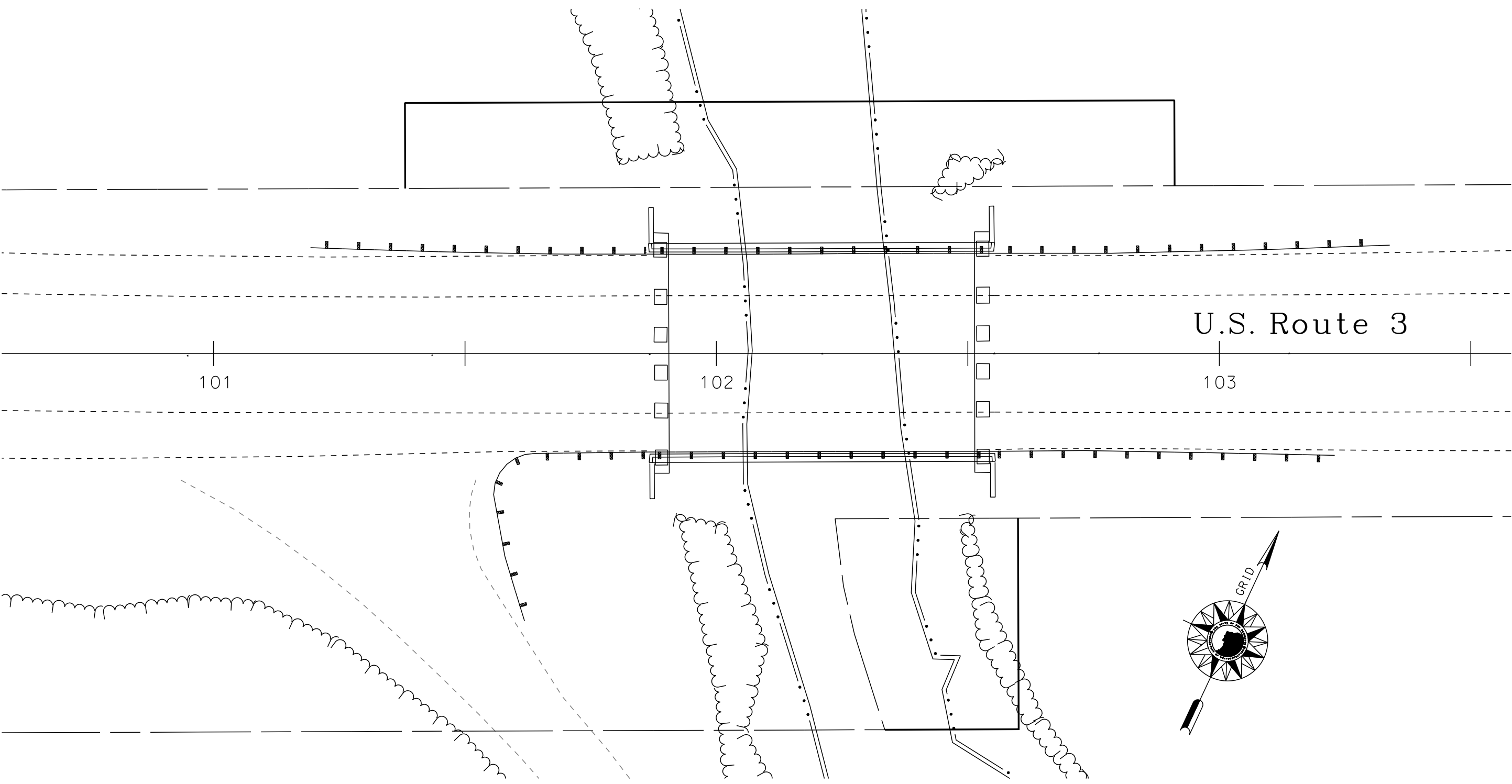
DESIGN DATA		
	BR. #108/167	BR. #051/098
AVERAGE DAILY TRAFFIC 2017	3,700	3,800
AVERAGE DAILY TRAFFIC 2039	5,500	5,600
PERCENT OF TRUCKS	7%	4%
DESIGN SPEED	50 MPH	30 MPH
LENGTH OF PROJECT	700 FT	600 FT

X-A004 (814)
N.H. PROJECT NO. 42313

US ROUTE 3 OVER SIMMS STREAM



LOCATION MAP
0 0.5 1 Miles
GRAPHIC SCALE



TOWNS OF COLUMBIA & COLEBROOK
COUNTY OF COOS

SCALE: 1" = 40'

NH DOT THE STATE OF
NEW HAMPSHIRE
DEPARTMENT OF
TRANSPORTATION

RECOMMENDED FOR APPROVAL:

DIRECTOR OF PROJECT DEVELOPMENT

DATE

APPROVED:

ASSISTANT COMMISSIONER AND CHIEF ENGINEER

DATE

DRAWING NAME	FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
42313Title	X-A004 (814)	42313	1	8

DRAWN BY	EVS	DATE	8/27/2020
CHECKED BY	CRF	DATE	8/27/2020

HEB
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CIVIL • STRUCTURAL • SURVEY

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GENERAL

EDGE OF PAVEMENT			
TRAVELED WAY			
DRIVEWAYS			
BUILDINGS			
FOUNDATION			
LEACH FIELD			
BRIDGE CROSSINGS			
STEPS AND WALK			
INTERMITTENT WATER COURSE			
SHORE LINE			
POTENTIAL WET AREA SYMBOL			
BRUSH OR WOODS LINE			
TREES (PLANS)			
TREE OR STUMP (CROSS-SECTIONS)			
HEDGE			
MONITORING WELL			
WELL			
FLAG POLE			

ORIGINAL GROUND (TYPICALS)	
ROCK OUTCROP	
ROCK LINE (TYPICALS & SECTIONS ONLY)	
GUARDRAIL (label type)	
JERSEY BARRIER	
CURB (LABEL TYPE)	
STONE WALL	
RETAINING WALL (LABEL TYPE)	
FENCE (LABEL TYPE)	
SIGNS	
GAS PUMP	
FUEL TANK (ABOVE GROUND)	
STORAGE TANK FILLER CAP	
SEPTIC TANK	
GRAVE	
MAILBOX	
VENT PIPE	
SATELLITE DISH ANTENNA	
PHONE	
GROUND LIGHT/LAMP POST	
BORING LOCATION	
TEST PIT	
INTERSTATE NUMBERED HIGHWAY	
UNITED STATES NUMBERED HIGHWAY	
STATE NUMBERED HIGHWAY	

SHORELAND - WETLAND

WETLAND DESIGNATION AND TYPE	
DELINEATED WETLAND	
ORDINARY HIGH WATER	
TOP OF BANK	
TOP OF BANK & ORDINARY HIGH WATER	
NORMAL HIGH WATER	
WIDTH AT BANK FULL	
PRIME WETLAND	
PRIME WETLAND 100' BUFFER	
NON-JURISDICTIONAL DRAINAGE AREA	
COWARDIN DISTINCTION LINE	
TIDAL BUFFER ZONE	
DEVELOPED TIDAL BUFFER ZONE	
HIGHEST OBSERVABLE TIDE LINE	
MEAN HIGH WATER	
MEAN LOW WATER	
VERNAL POOL	
SPECIAL AQUATIC SITE	
REFERENCE LINE	
WATER FRONT BUFFER	
NATURAL WOODLAND BUFFER	
PROTECTED SHORELAND	
INVASIVE SPECIES LABEL	
INVASIVE SPECIES	

FLOODPLAIN / FLOODWAY

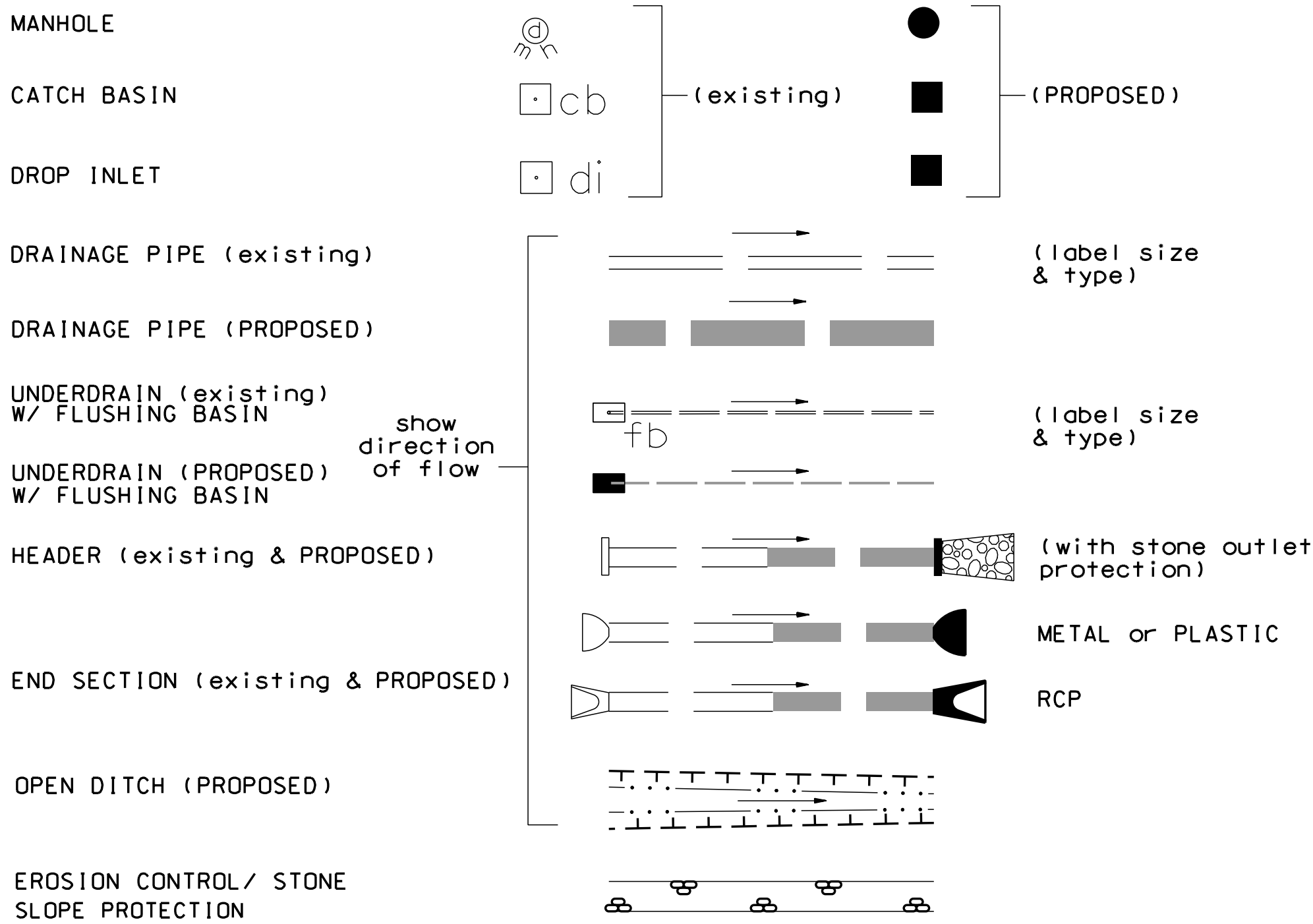
500 YEAR FLOODPLAIN BOUNDARY	
100 YEAR FLOODPLAIN BOUNDARY	
FLOODWAY	

ENGINEERING

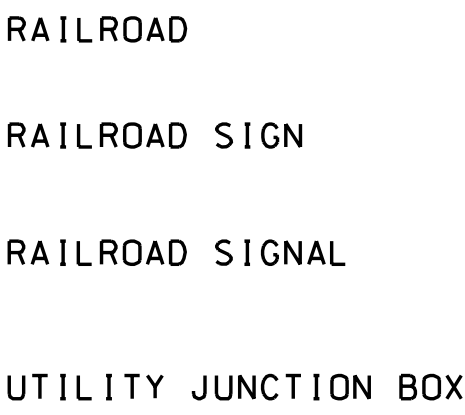
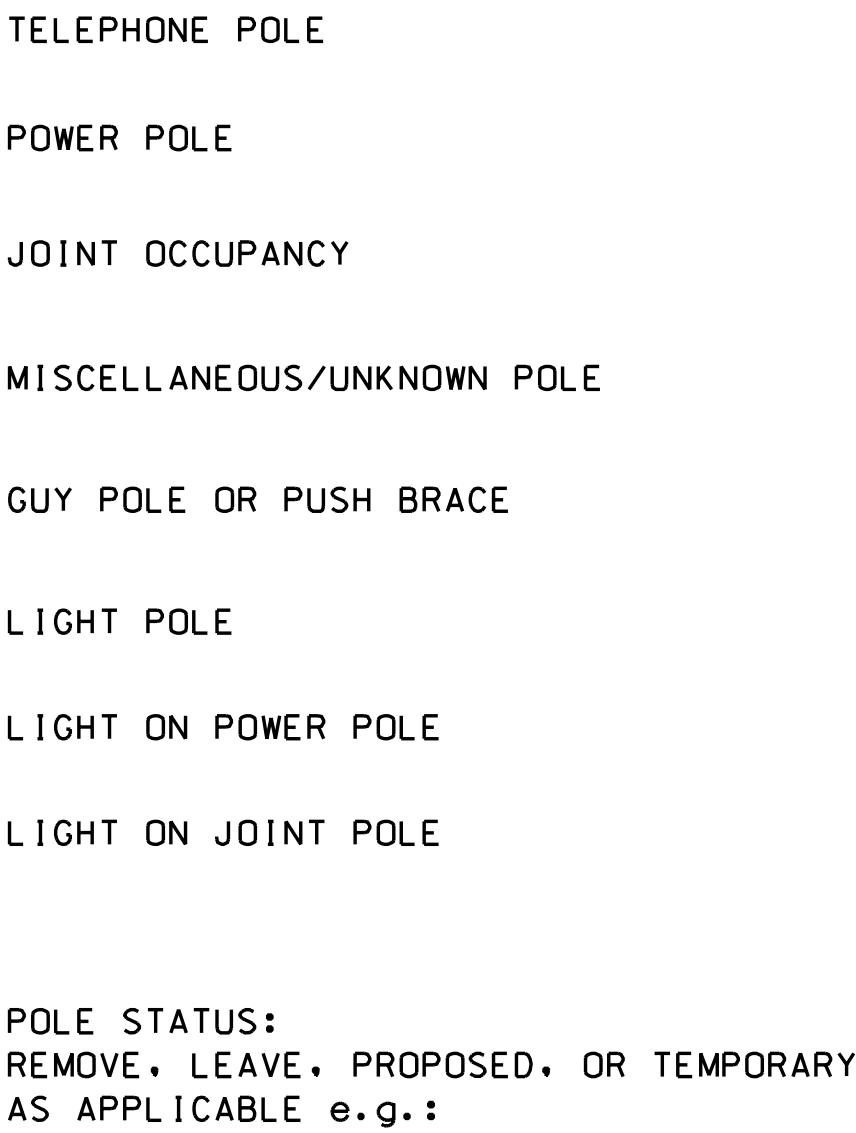
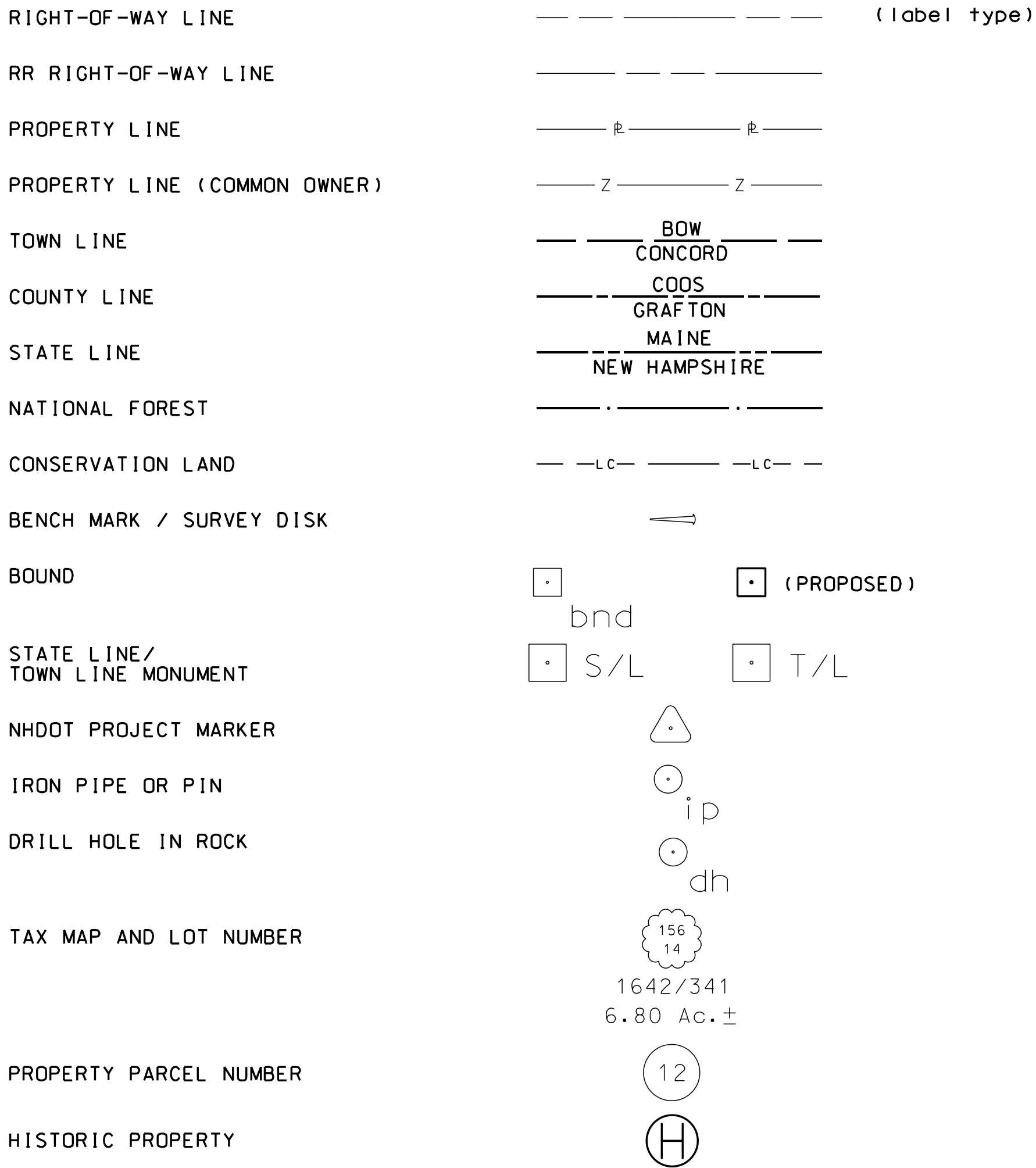
CONSTRUCTION BASELINE	
PC, PT, POT (ON CONST BASELINE)	
PI (IN CONSTRUCTION BASELINES)	
INTERSECTION OR EQUATION OF TWO LINES	
ORIGINAL GROUND LINE (PROFILES AND CROSS-SECTIONS)	
PROFILE GRADE LINE (PROFILES AND CROSS-SECTIONS)	
CLEARING LINE	
SLOPE LINE	
SLOPE LINE (FILL)	
SLOPE LINE (CUT)	
PROFILES AND CROSS SECTIONS:	
ORIGINAL GROUND ELEVATION (LEFT)	
FINISHED GRADE ELEVATION (RIGHT)	

STATE OF NEW HAMPSHIRE Colebrook-Columbia				
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN				
STANDARD SYMBOLS				
REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
11-26-2019	42313Symbol1_2	42313	2	8

DRAINAGE



BOUNDARIES / RIGHT-OF-WAY



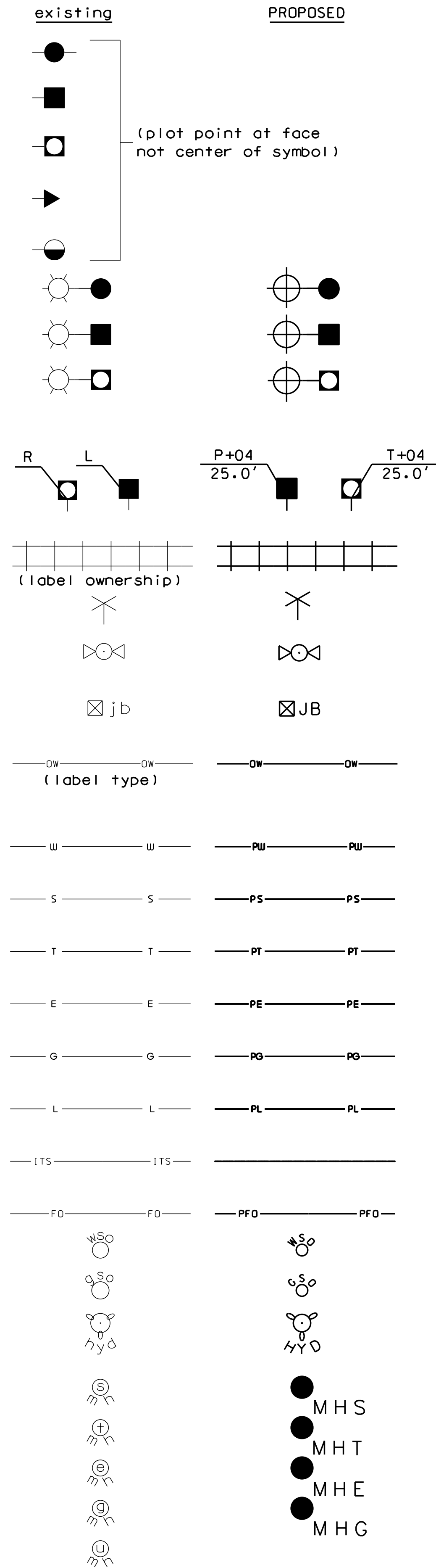
UNDERGROUND UTILITIES



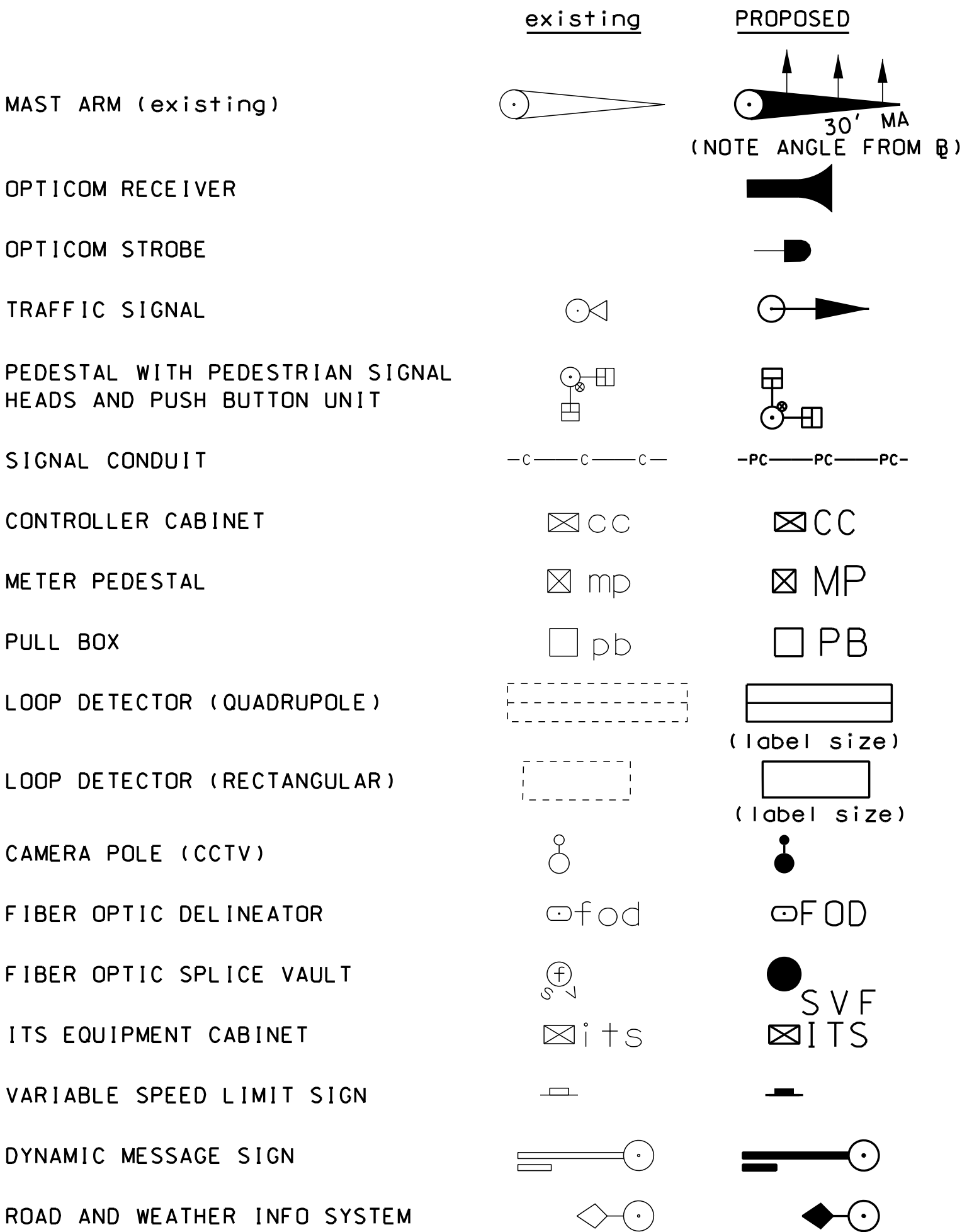
MANHOLES



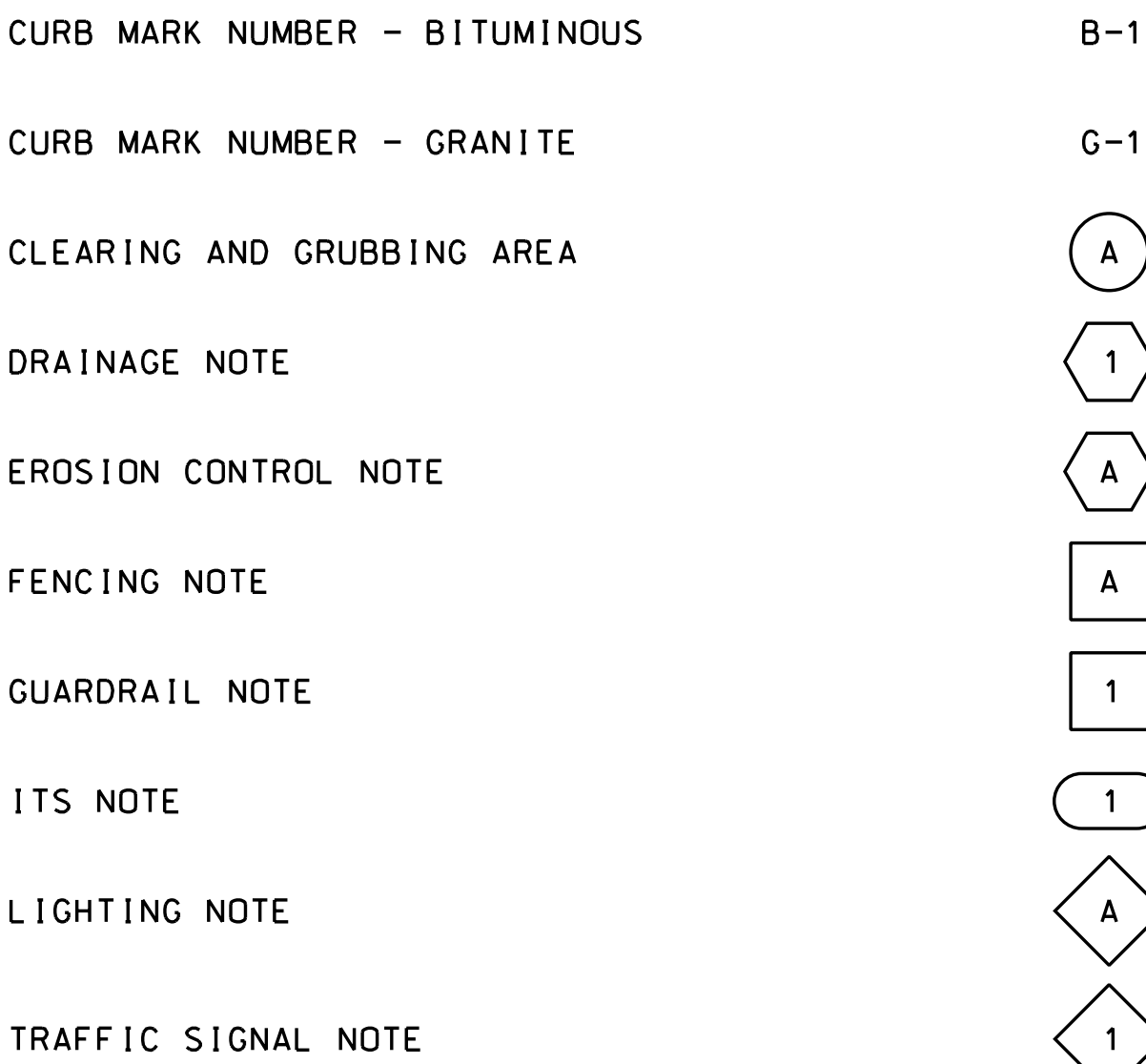
UTILITIES



TRAFFIC SIGNALS / ITS



CONSTRUCTION NOTES



STATE OF NEW HAMPSHIRE Colebrook-Columbia				
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN				
STANDARD SYMBOLS				
REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
11/26/2019	42313Symbol1_2	42313	3	8

SDR PROCESSED	NHDOT	DATE	REVISIONS AFTER PROPOSAL			
	NEW DESIGN	EVS	DATE	STATION	DESCRIPTION	
	SHEET CHECKED	CRF	DATE			
	AS BUILT DETAILS		DATE			

WETLAND CLASSIFICATION CODES		
R2UB1	1	RIVERINE, LOWER PERENNIAL, UNCONSOLIDATED BOTTOM, COBBLE-GRAVEL SYSTEM
BANK	2	BANK

LEGEND

TYPE OF WETLAND IMPACT	SHADING/HATCHING
NEW HAMPSHIRE WETLANDS BUREAU (PERMANENT NON-WETLAND)	<div></div>
NEW HAMPSHIRE WETLANDS BUREAU & ARMY CORP OF ENGINEERS (PERMANENT WETLAND)	<div></div>
TEMPORARY IMPACTS	<div></div>

- #

WETLAND DESIGNATION NUMBER
- #

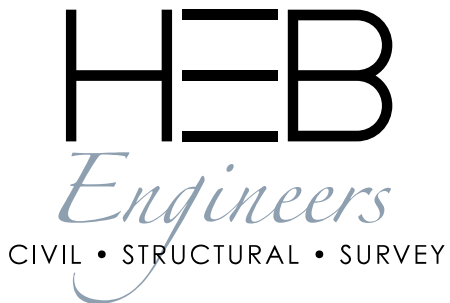
WETLAND IMPACT LOCATION
- #

WETLAND MITIGATION AREA
- MITIGATION

WETLAND IMPACT SUMMARY COLUMBIA												
WETLAND NUMBER	WETLAND CLASS- IFICATION	LOCATION	AREA IMPACTS							LINEAR STREAM IMPACTS FOR MITIGATION		
			PERMANENT				TEMPORARY			PERMANENT		
			N.H.W.B. (NON-WETLAND)		N.H.W.B. & A.C.O.E. (WETLAND)					BANK LEFT	BANK RIGHT	CHANNEL
			SF	LF	SF	LF	SF	LF				
1	R2UB1	A			3,435	80	1,037	18				
1	R2 BANK	B			476	81	216	20				
1	R2 BANK	C			658	80	230	21				
		TOTAL	0 SF	0 LF	4,569 SF	241 LF	1,403 SF	59 LF	0 LF	0 LF	0 LF	

PERMANENT IMPACTS: 4,569 SF
TEMPORARY IMPACTS: 1,403 SF

TOTAL IMPACTS: 5,972 SF

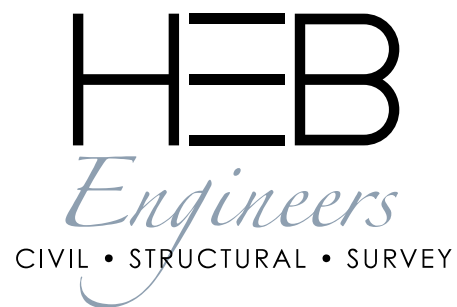
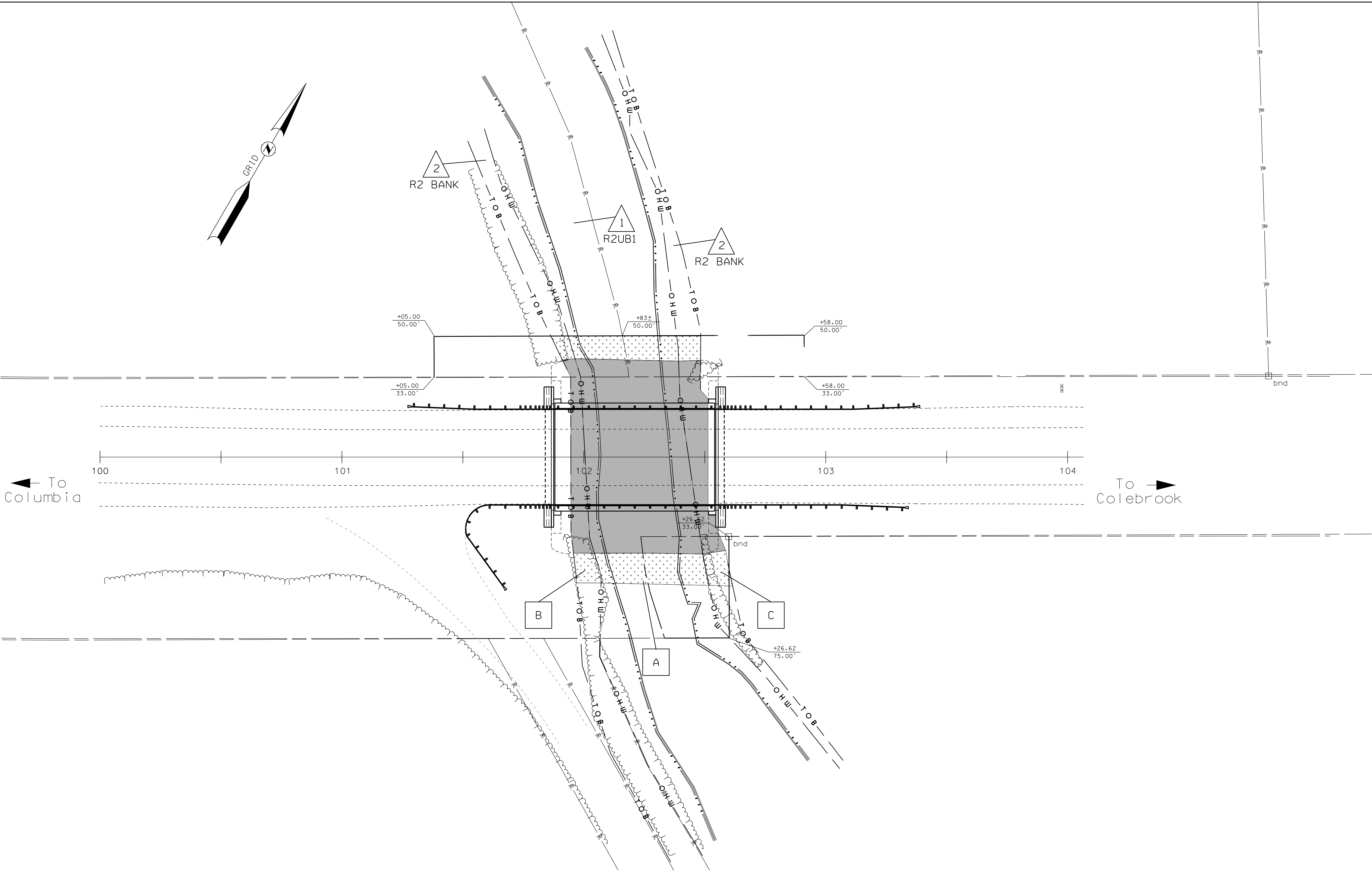


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SHEET SCALE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
N/A	42313WetPlans	42313	4	8

STATE OF NEW HAMPSHIRE	
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN	
WETLAND IMPACT SUMMARY	

SDR PROCESSED		NHDOT	DATE		REVISIONS AFTER PROPOSAL	
NEW DESIGN	EVS		DATE	8/27/2020	STATION	DESCRIPTION
SHEET CHECKED	CRF		DATE	8/27/2020	NUMBER	DATE
AS BUILT DETAILS			DATE			



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STATE OF NEW HAMPSHIRE				
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN				
WETLAND IMPACT PLAN COLUMBIA				
SHEET SCALE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
1" = 20'	42313WetPlans	42313	5	8

EROSION CONTROL STRATEGIES

1. ENVIRONMENTAL COMMITMENTS:
- 1.1. THESE GUIDELINES DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH ANY CONTRACT PROVISIONS, OR APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- 1.2. THIS PROJECT WILL BE SUBJECT TO THE US EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER CONSTRUCTION GENERAL PERMIT AS ADMINISTERED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THIS PROJECT IS SUBJECT TO REQUIREMENTS IN THE MOST RECENT CONSTRUCTION GENERAL PERMIT (CGP).
- 1.3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE NHDES WETLAND PERMIT, THE US ARMY CORPS OF ENGINEERS PERMIT, WATER QUALITY CERTIFICATION AND THE SPECIAL ATTENTION ITEMS INCLUDED IN THE CONTRACT DOCUMENTS.
- 1.4. ALL STORM WATER, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION (DECEMBER 2008) (BMP MANUAL) AVAILABLE FROM THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES).
- 1.5. THE CONTRACTOR SHALL COMPLY WITH RSA 485-A:17, AND ALL, PUBLISHED NHDES ALTERATION OF TERRAIN ENV-WQ 1500 REQUIREMENTS ([HTTP://DES.NH.GOV/ORGANIZATION/COMMISSIONER/LEGAL/RULES/INDEX.HTM](http://DES.NH.GOV/ORGANIZATION/COMMISSIONER/LEGAL/RULES/INDEX.HTM))
- 1.6. THE CONTRACTOR IS DIRECTED TO REVIEW AND COMPLY WITH SECTION 107.1 OF THE CONTRACT AS IT REFERS TO SPILLAGE, AND ALSO WITH REGARDS TO EROSION, POLLUTION, AND TURBIDITY PRECAUTIONS.
2. STANDARD EROSION CONTROL SEQUENCING APPLICABLE TO ALL CONSTRUCTION PROJECTS:
- 2.1. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES. PERIMETER CONTROLS AND STABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED AS SHOWN IN THE BMP MANUAL AND AS DIRECTED BY THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARER.
- 2.2. EROSION, SEDIMENTATION CONTROL MEASURES AND INFILTRATION BASINS SHALL BE CLEANED, REPLACED AND AUGMENTED AS NECESSARY TO PREVENT SEDIMENTATION BEYOND PROJECT LIMITS THROUGHOUT THE PROJECT DURATION.
- 2.3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT AND SECTION 645 OF THE NHDOT SPECIFICATIONS FOR ROAD AND BRIDGES CONSTRUCTION.
- 2.4. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
- (A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
- (B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- (C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED;
- (D) TEMPORARY SLOPE STABILIZATION CONFORMING TO TABLE 1 HAS BEEN PROPERLY INSTALLED
- 2.5. ALL STOCKPILES SHALL BE CONTAINED WITH A PERIMETER CONTROL. IF THE STOCKPILE IS TO REMAIN UNDISTURBED FOR MORE THAN 14 DAYS, MULCHING WILL BE REQUIRED.
- 2.6. A WATER TRUCK SHALL BE AVAILABLE TO CONTROL EXCESSIVE DUST AT THE DIRECTION OF THE CONTRACT ADMINISTRATOR.
- 2.7. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN UNTIL THE AREA HAS BEEN PERMANENTLY STABILIZED.
- 2.8. CONSTRUCTION PERFORMED ANY TIME BETWEEN NOVEMBER 30th AND MAY 1st OF ANY YEAR SHALL BE CONSIDERED WINTER CONSTRUCTION AND SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.
- (A) ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15th, OR WHICH ARE DISTURBED AFTER OCTOBER 15th, SHALL BE STABILIZED IN ACCORDANCE WITH TABLE 1.
- (B) ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15th, OR WHICH ARE DISTURBED AFTER OCTOBER 15th, SHALL BE STABILIZED TEMPORARILY WITH STONE OR IN ACCORDANCE WITH TABLE 1.
- (C) AFTER NOVEMBER 30th INCOMPLETE ROAD SURFACES, WHERE WORK HAS STOPPED FOR THE SEASON, SHALL BE PROTECTED IN ACCORDANCE WITH TABLE 1.
- (D) WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE PROJECT IS WITHOUT STABILIZATION AT ONE TIME, UNLESS A WINTER CONSTRUCTION PLAN HAS BEEN APPROVED BY NHDOT THAT MEETS THE REQUIREMENTS OF ENV-WQ 1505.02 AND ENV-WQ 1505.05.
- (E) A SWPPP AMENDMENT SHALL BE SUBMITTED TO THE DEPARTMENT, FOR APPROVAL, ADDRESSING COLD WEATHER STABILIZATION (ENV-WQ 1505.05) AND INCLUDING THE REQUIREMENTS OF NO LESS THAN 30 DAYS PRIOR TO THE COMMENCEMENT OF WORK SCHEDULED AFTER NOVEMBER 30th.

GENERAL CONSTRUCTION PLANNING AND SELECTION OF STRATEGIES TO CONTROL EROSION AND SEDIMENT ON HIGHWAY CONSTRUCTION PROJECTS

3. PLAN ACTIVITIES TO ACCOUNT FOR SENSITIVE SITE CONDITIONS:
- 3.1. CLEARLY FLAG AREAS TO BE PROTECTED IN THE FIELD AND PROVIDE CONSTRUCTION BARRIERS TO PREVENT TRAFFICKING OUTSIDE OF WORK AREAS.
- 3.2. CONSTRUCTION SHALL BE SEQUENCED TO LIMIT THE DURATION AND AREA OF EXPOSED SOILS.
- 3.3. PROTECT AND MAXIMIZE EXISTING NATIVE VEGETATION AND NATURAL FOREST BUFFERS BETWEEN CONSTRUCTION ACTIVITY AND SENSITIVE AREAS.
- 3.4. WHEN WORK IS PERFORMED IN AND NEAR WATER COURSES, STREAM FLOW DIVERSION METHODS SHALL BE IMPLEMENTED PRIOR TO ANY EXCAVATION OR FILLING.
- 3.5. WHEN WORK IS PERFORMED WITHIN 50 FEET OF SURFACE WATERS (WETLAND, OPEN WATER OR FLOWING WATER), PERIMETER CONTROL SHALL BE ENHANCED CONSISTENT WITH SECTION 2.1.2.1. OF THE 2012 NPDES CONSTRUCTION GENERAL PERMIT.
4. MINIMIZE THE AMOUNT OF EXPOSED SOIL:
- 4.1. CONSTRUCTION SHALL BE SEQUENCED TO LIMIT THE DURATION AND AREA OF EXPOSED SOILS. MINIMIZE THE AREA OF EXPOSED SOIL AT ANY ONE TIME. PHASING SHALL BE USED TO REDUCE THE AMOUNT AND DURATION OF SOIL EXPOSED TO THE ELEMENTS AND VEHICLE TRACKING.
- 4.2. UTILIZE TEMPORARY MULCHING OR PROVIDE ALTERNATE TEMPORARY STABILIZATION ON EXPOSED SOILS IN ACCORDANCE WITH TABLE 1.
- 4.3. THE MAXIMUM AMOUNT OF DISTURBED EARTH SHALL NOT EXCEED A TOTAL OF 5 ACRES FROM MAY 1st THROUGH NOVEMBER 30th, OR EXCEED ONE ACRE DURING WINTER MONTHS, UNLESS THE CONTRACTOR DEMONSTRATES TO THE DEPARTMENT THAT THE ADDITIONAL AREA OF DISTURBANCE IS NECESSARY TO MEET THE CONTRACTORS CRITICAL PATH METHOD SCHEDULE (CPM), AND THE CONTRACTOR HAS ADEQUATE RESOURCES AVAILABLE TO ENSURE THAT ENVIRONMENTAL COMMITMENTS WILL BE MET.
5. CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT:
- 5.1. DIVERT OFF SITE RUNOFF OR CLEAN WATER AWAY FROM THE CONSTRUCTION ACTIVITY TO REDUCE THE VOLUME THAT NEEDS TO BE TREATED ON SITE.
- 5.2. DIVERT STORM RUNOFF FROM UPSLOPE DRAINAGE AREAS AWAY FROM DISTURBED AREAS, SLOPES, AND AROUND ACTIVE WORK AREAS AND TO A STABILIZED OUTLET LOCATION.
- 5.3. CONSTRUCT IMPERMEABLE BARRIERS AS NECESSARY TO COLLECT OR DIVERT CONCENTRATED FLOWS FROM WORK OR DISTURBED AREAS.
- 5.4. STABILIZE, TO APPROPRIATE ANTICIPATED VELOCITIES, CONVEYANCE CHANNELS OR PUMPING SYSTEMS NEEDED TO CONVEY CONSTRUCTION STORMWATER TO BASINS AND DISCHARGE LOCATIONS PRIOR TO USE.
- 5.5. DIVERT OFF-SITE WATER THROUGH THE PROJECT IN AN APPROPRIATE MANNER SO NOT TO DISTURB THE UPSTREAM OR DOWNSTREAM SOILS, VEGETATION OR HYDROLOGY BEYOND THE PERMITTED AREA.
6. PROTECT SLOPES:
- 6.1. INTERCEPT AND DIVERT STORM RUNOFF FROM UPSLOPE DRAINAGE AREAS AWAY FROM UNPROTECTED AND NEWLY ESTABLISHED AREAS AND SLOPES TO A STABILIZED OUTLET OR CONVEYANCE.
- 6.2. CONSIDER HOW GROUNDWATER SEEPAGE ON CUT SLOPES MAY IMPACT SLOPE STABILITY AND INCORPORATE APPROPRIATE MEASURES TO MINIMIZE EROSION.
- 6.3. CONVEY STORMWATER DOWN THE SLOPE IN A STABILIZED CHANNEL OR SLOPE DRAIN.
- 6.4. THE OUTER FACE OF THE FILL SLOPE SHOULD BE IN A LOOSE RUFFLED CONDITION PRIOR TO TURF ESTABLISHMENT. TOPSOIL OR HUMUS LAYERS SHALL BE TRACKED UP AND DOWN THE SLOPE, DISKED, HARROWED, DRAGGED WITH A CHAIN OR MAT, MACHINE-RAKED, OR HAND-WORKED TO PRODUCE A RUFFLED SURFACE.
7. ESTABLISH STABILIZED CONSTRUCTION EXITS:
- 7.1. INSTALL AND MAINTAIN CONSTRUCTION EXITS, ANYWHERE TRAFFIC LEAVES A CONSTRUCTION SITE ONTO A PUBLIC RIGHT-OF-WAY.
- 7.2. SWEEP ALL CONSTRUCTION RELATED DEBRIS AND SOIL FROM THE ADJACENT PAVED ROADWAYS AS NECESSARY.
8. PROTECT STORM DRAIN INLETS:
- 8.1. DIVERT SEDIMENT LADEN WATER AWAY FROM INLET STRUCTURES TO THE EXTENT POSSIBLE.
- 8.2. INSTALL SEDIMENT BARRIERS AND SEDIMENT TRAPS AT INLETS TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.
- 8.3. CLEAN CATCH BASINS, DRAINAGE PIPES, AND CULVERTS IF SIGNIFICANT SEDIMENT IS DEPOSITED.
- 8.4. DROP INLET SEDIMENT BARRIERS SHOULD NEVER BE USED AS THE PRIMARY MEANS OF SEDIMENT CONTROL AND SHOULD ONLY BE USED TO PROVIDE AN ADDITIONAL LEVEL OF PROTECTION TO STRUCTURES AND DOWN-GRADIENT SENSITIVE RECEPTORS.
9. SOIL STABILIZATION:
- 9.1. WITHIN THREE DAYS OF THE LAST ACTIVITY IN AN AREA, ALL EXPOSED SOIL AREAS, WHERE CONSTRUCTION ACTIVITIES ARE COMPLETE, SHALL BE STABILIZED.
- 9.2. IN ALL AREAS, TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED IN ACCORDANCE WITH THE STABILIZATION REQUIREMENTS (SECTION 2.2) OF THE 2012 CGP. (SEE TABLE 1 FOR GUIDANCE ON THE SELECTION OF TEMPORARY SOIL STABILIZATION MEASURES.)
- 9.3. EROSION CONTROL SEED MIX SHALL BE SOWN IN ALL INACTIVE CONSTRUCTION AREAS THAT WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE AND PRIOR TO SEPTEMBER 15, OF ANY GIVEN YEAR, IN ORDER TO ACHIEVE VEGETATIVE STABILIZATION PRIOR TO THE END OF THE GROWING SEASON.
- 9.4. SOIL TACKIFIERS MAY BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND REAPPLIED AS NECESSARY TO MINIMIZE SOIL AND MULCH LOSS UNTIL PERMANENT VEGETATION IS ESTABLISHED.
10. RETAIN SEDIMENT ON-SITE AND CONTROL DEWATERING PRACTICES:
- 10.1. TEMPORARY SEDIMENT BASINS (CGP-SECTION 2.1.3.2) OR SEDIMENT TRAPS (ENV-WQ 1506.10) SHALL BE SIZED TO RETAIN, ON SITE, THE VOLUME OF A 2-YEAR 24-HOUR STORM EVENT FOR ANY AREA OF DISTURBANCE OR 3,600 CUBIC FEET OF STORMWATER RUNOFF PER ACRE OF DISTURBANCE, WHICHEVER IS GREATER. TEMPORARY SEDIMENT BASINS USED TO TREAT STORMWATER RUNOFF FROM AREAS GREATER THAN 5-ACRES OF DISTURBANCE SHALL BE SIZED TO ALSO CONTROL STORMWATER RUNOFF FROM A 10-YEAR 24 HOUR STORM EVENT. ON-SITE RETENTION OF THE 10-YEAR 24-HOUR EVENT IS NOT REQUIRED.
- 10.2. CONSTRUCT AND STABILIZE DEWATERING INFILTRATION BASINS PRIOR TO ANY EXCAVATION THAT MAY REQUIRE DEWATERING.
- 10.3. TEMPORARY SEDIMENT BASINS OR TRAPS SHALL BE PLACED AND STABILIZED AT LOCATIONS WHERE CONCENTRATED FLOW (CHANNELS AND PIPES) DISCHARGE TO THE SURROUNDING ENVIRONMENT FROM AREAS OF UNSTABILIZED EARTH DISTURBING ACTIVITIES.

11. ADDITIONAL EROSION AND SEDIMENT CONTROL GENERAL PRACTICES:
- 11.1. USE TEMPORARY MULCHING, PERMANENT MULCHING, TEMPORARY VEGETATIVE COVER, AND PERMANENT VEGETATIVE COVER TO REDUCE THE NEED FOR DUST CONTROL. USE MECHANICAL SWEEPERS ON PAVED SURFACES WHERE NECESSARY TO PREVENT DUST BUILDUP. APPLY WATER, OR OTHER DUST INHIBITING AGENTS OR TACKIFIERS, AS APPROVED BY THE NHDES.
- 11.2. ALL STOCKPILES SHALL BE CONTAINED WITH TEMPORARY PERIMETER CONTROLS. INACTIVE SOIL STOCKPILES SHOULD BE PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY EROSION CONTROL SEED MIX AND MULCH, SOIL BINDER) OR COVERED WITH ANCHORED TARPS.
- 11.3. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED IN ACCORDANCE WITH SECTION 645 OF NHDOT SPECIFICATIONS, WEEKLY AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.25 IN. OF RAIN PER 24-HOUR PERIOD. EROSION AND SEDIMENT CONTROL MEASURES WILL ALSO BE INSPECTED IN ACCORDANCE WITH THE GUIDANCE MEMO FROM THE NHDES CONTAINED WITHIN THE CONTRACT PROPOSAL AND THE EPA CONSTRUCTION GENERAL PERMIT.
- 11.4. THE CONTRACTOR SHOULD UTILIZE STORM DRAIN INLET PROTECTION TO PREVENT SEDIMENT FROM ENTERING A STORM DRAINAGE SYSTEM PRIOR TO THE PERMANENT STABILIZATION OF THE CONTRIBUTING DISTURBED AREA.
- 11.5. PERMANENT STABILIZATION MEASURES WILL BE CONSTRUCTED AND MAINTAINED IN LOCATIONS AS SHOWN ON THE CONSTRUCTION PLANS TO STABILIZE AREAS. VEGETATIVE STABILIZATION SHALL NOT BE CONSIDERED PERMANENTLY STABILIZED UNTIL VEGETATIVE GROWTH COVERS AT LEAST 85% OF THE DISTURBED AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL FOR ONE YEAR AFTER PROJECT COMPLETION.
- 11.6. CATCH BASINS: CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT ENTER ANY EXISTING CATCH BASINS DURING CONSTRUCTION. THE CONTRACTOR SHALL PLACE TEMPORARY STONE INLET PROTECTION OVER INLETS IN AREAS OF SOIL DISTURBANCE THAT ARE SUBJECT TO SEDIMENT CONTAMINATION.
- 11.7. TEMPORARY AND PERMANENT DITCHES SHALL BE CONSTRUCTED, STABILIZED AND MAINTAINED IN A MANNER THAT WILL MINIMIZE SCOUR. TEMPORARY AND PERMANENT DITCHES SHALL BE DIRECTED TO DRAIN TO SEDIMENT BASINS OR STORM WATER COLLECTION AREAS.
- 11.8. WINTER EXCAVATION AND EARTHWORK ACTIVITIES NEED TO BE LIMITED IN EXTENT AND DURATION, TO MINIMIZE POTENTIAL EROSION AND SEDIMENTATION IMPACTS. THE AREA OF EXPOSED SOIL SHALL BE LIMITED TO ONE ACRE, OR THAT WHICH CAN BE STABILIZED AT THE END OF EACH DAY UNLESS A WINTER CONSTRUCTION PLAN, DEVELOPED BY A QUALIFIED ENGINEER OR A CPESC SPECIALIST, IS REVIEWED AND APPROVED BY THE DEPARTMENT.
- 11.9. CHANNEL PROTECTION MEASURES SHALL BE SUPPLEMENTED WITH PERIMETER CONTROL MEASURES WHEN THE DITCH LINES OCCUR AT THE BOTTOM OF LONG FILL SLOPES. THE PERIMETER CONTROLS SHALL BE INSTALLED ON THE FILL SLOPE TO MINIMIZE THE POTENTIAL FOR FILL SLOPE SEDIMENT DEPOSITS IN THE DITCH LINE.

BEST MANAGEMENT PRACTICES (BMP) BASED ON AMOUNT OF OPEN CONSTRUCTION AREA

12. STRATEGIES SPECIFIC TO OPEN AREAS LESS THAN 5 ACRES:
- 12.1. THE CONTRACTOR SHALL COMPLY WITH RSA 485:A:17 AND ENV-WQ 1500; ALTERATION OF TERRAIN FOR CONSTRUCTION AND USE ALL CONVENTIONAL BMP STRATEGIES.
- 12.2. SLOPES STEEPER THAN 3:1 WILL RECEIVE TURF ESTABLISHMENT WITH MATTING.
- 12.3. SLOPES 3:1 OR FLATTER WILL RECEIVE TURF ESTABLISHMENT ALONE.
- 12.4. AREAS WHERE HAUL ROADS ARE CONSTRUCTED AND STORMWATER CANNOT BE TREATED THE DEPARTMENT WILL CONSIDER INFILTRATION.
- 12.5. FOR HAUL ROADS ADJACENT TO SENSITIVE ENVIRONMENTAL AREAS OR STEEPER THAN 5%, THE DEPARTMENT WILL CONSIDER USING EROSION STONE, CRUSHED GRAVEL, OR CRUSHED STONE BASE TO HELP MINIMIZE EROSION ISSUES.
- 12.6. ALL AREAS THAT CAN BE STABILIZED SHALL BE STABILIZED PRIOR TO OPENING UP NEW TERRITORY.
- 12.7. DETENTION BASINS SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE A 2 YEAR STORM EVENT.
13. STRATEGIES SPECIFIC TO OPEN AREAS BETWEEN 5 AND 10 ACRES:
- 13.1. THE CONTRACTOR SHALL COMPLY WITH RSA 485:A:17 AND ENV-WQ 1500 ALTERATION OF TERRAIN AND SHALL USE CONVENTIONAL BMP STRATEGIES AND ALL TREATMENT OPTIONS USED FOR UNDER 5 ACRES WILL BE UTILIZED.
- 13.2. DETENTION BASINS WILL BE CONSTRUCTED TO ACCOMMODATE THE 2-YEAR 24-HOUR STORM EVENT AND CONTROL A 10-YEAR 24-HOUR STORM EVENT.
- 13.3. SLOPES STEEPER THAN A 3:1 WILL RECEIVE TURF ESTABLISHMENT WITH MATTING OR OTHER TEMPORARY SOIL STABILIZATION MEASURES DETAILED IN TABLE 1. THE CONTRACTOR MAY ALSO CONSIDER A SOIL BINDER IN ACCORDANCE WITH THE NHDES APPROVALS OR REGULATIONS. OTHER ALTERNATIVE MEASURES, SUCH AS BONDED FIBER MATRIXES (BFMS) OR FLEXIBLE GROWTH MEDIUMS (FGMS) MAY BE UTILIZED, IF MEETING THE NHDES APPROVALS AND REGULATIONS.
- 13.4. SLOPES 3:1 OR FLATTER WILL RECEIVE TURF ESTABLISHMENT OR OTHER TEMPORARY SOIL STABILIZATION MEASURES DETAILED IN TABLE 1. THE CONTRACTOR MAY ALSO CONSIDER A SOIL BINDER IN ACCORDANCE WITH THE NHDES APPROVALS OR REGULATIONS.
14. STRATEGIES SPECIFIC TO OPEN AREAS OVER 10 ACRES:
- 14.1. THE CONTRACTOR SHALL COMPLY WITH RSA 485:A:17 AND ENV-WQ 1500 ALTERATION OF TERRAIN AND SHALL USE CONVENTIONAL BMP STRATEGIES AND ALL TREATMENT OPTIONS USED FOR UNDER 5 ACRES AND BETWEEN 5 AND 10 ACRES WILL BE UTILIZED.
- 14.2. THE DEPARTMENT ANTICIPATES THAT SOIL BINDERS WILL BE NEEDED ON ALL SLOPES STEEPER THAN 3:1, IN ORDER TO MINIMIZE EROSION AND REDUCE THE AMOUNT OF SEDIMENT IN THE STORMWATER TREATMENT BASINS.
- 14.3. THE CONTRACTOR WILL BE REQUIRED TO HAVE AN APPROVED DESIGN IN ACCORDANCE WITH ENV-WQ 1506.12 FOR AN ACTIVE FLOCCULANT TREATMENT SYSTEM TO TREAT AND RELEASE WATER CAPTURED IN STORM WATER BASINS. THE CONTRACTOR SHALL ALSO RETAIN THE SERVICES OF AN ENVIRONMENTAL CONSULTANT WHO HAS DEMONSTRATED EXPERIENCE IN THE DESIGN OF FLOCCULANT TREATMENT SYSTEMS. THE CONSULTANT WILL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION AND MONITORING OF THE SYSTEM.

TABLE 1
GUIDANCE ON SELECTING TEMPORARY SOIL STABILIZATION MEASURES

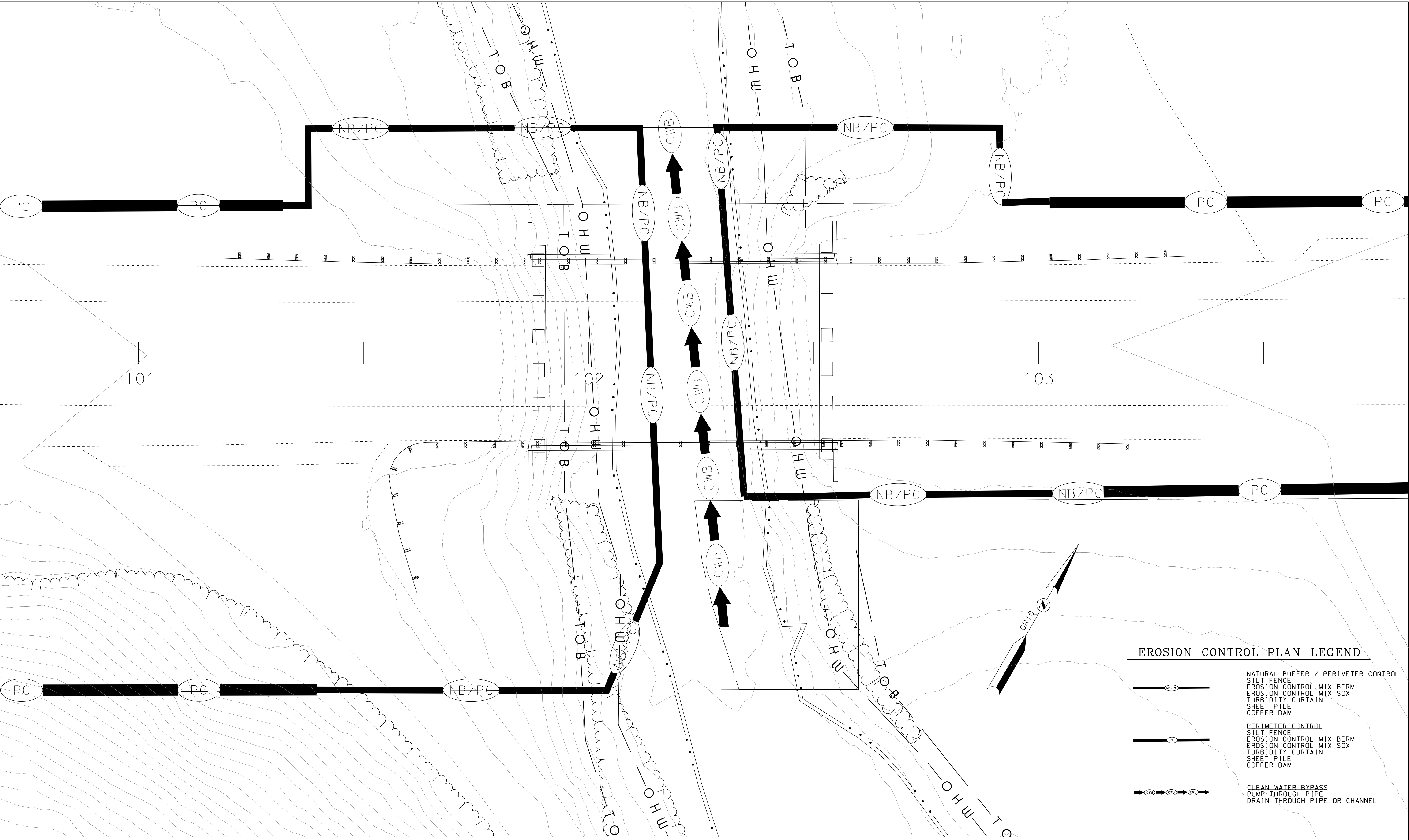
APPLICATION AREAS	DRY MULCH METHODS				HYDRAULICALLY APPLIED MULCHES ²				ROLLED EROSION CONTROL BLANKETS ³			
	HMT	WC	SG	CB	HM	SMM	BFM	FRM	SNSB	DNSB	DNSCB	DNCB
SLOPES ¹												
STEEPER THAN 2:1	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES
2:1 SLOPE	YES ¹	YES ¹	YES	YES	NO	NO	YES	YES	NO	YES	YES	YES
3:1 SLOPE	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO
4:1 SLOPE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
WINTER STABILIZATION	4T/AC	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	YES
CHANNELS												
LOW FLOW CHANNELS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES
HIGH FLOW CHANNELS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES

ABBREV.	STABILIZATION MEASURE	ABBREV.	STABILIZATION MEASURE	ABBREV.	STABILIZATION MEASURE
HMT	HAY MULCH & TACK	HM	HYDRAULIC MULCH	SNSB	SINGLE NET STRAW BLANKET
WC	WOOD CHIPS	SMM	STABILIZED MULCH MATRIX	DNSB	DOUBLE NET STRAW BLANKET
SG	STUMP GRINDINGS	BFM	BONDED FIBER MATRIX	DNSCB	2 NET STRAW-COCONUT BLANKET
CB	COMPOST BLANKET	FRM	FIBER REINFORCED MEDIUM	DNCB	2 NET COCONUT BLANKET

- NOTES:
1. ALL SLOPE STABILIZATION OPTIONS ASSUME A SLOPE LENGTH ≤10 TIMES THE HORIZONTAL DISTANCE COMPONENT OF THE SLOPE, IN FEET.
2. PRODUCTS CONTAINING POLYACRYLAMIDE (PAM) SHALL NOT BE APPLIED DIRECTLY TO OR WITHIN 100 FEET OF ANY SURFACE WATER WITHOUT PRIOR WRITTEN APPROVAL FROM THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES.
3. ALL EROSION CONTROL BLANKETS SHALL BE MADE WITH WILDLIFE FRIENDLY BIODEGRADABLE NETTING.

STATE OF NEW HAMPSHIRE				
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN				
WETLAND IMPACT PLANS				
REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12-21-2015	erosstrat	24579	6	8

SOR PROCESSED		NH/DT	DATE	REVISIONS AFTER PROPOSAL			
NEW DESIGN		EVS	DATE	8/27/2020			
SHEET CHECKED		CRF	DATE	8/27/2020			
AS BUILT DETAILS			DATE				



EROSION CONTROL PLAN LEGEND	
	NATURAL BUFFER / PERIMETER CONTROL
	PERIMETER CONTROL
	CLEAN WATER BYPASS

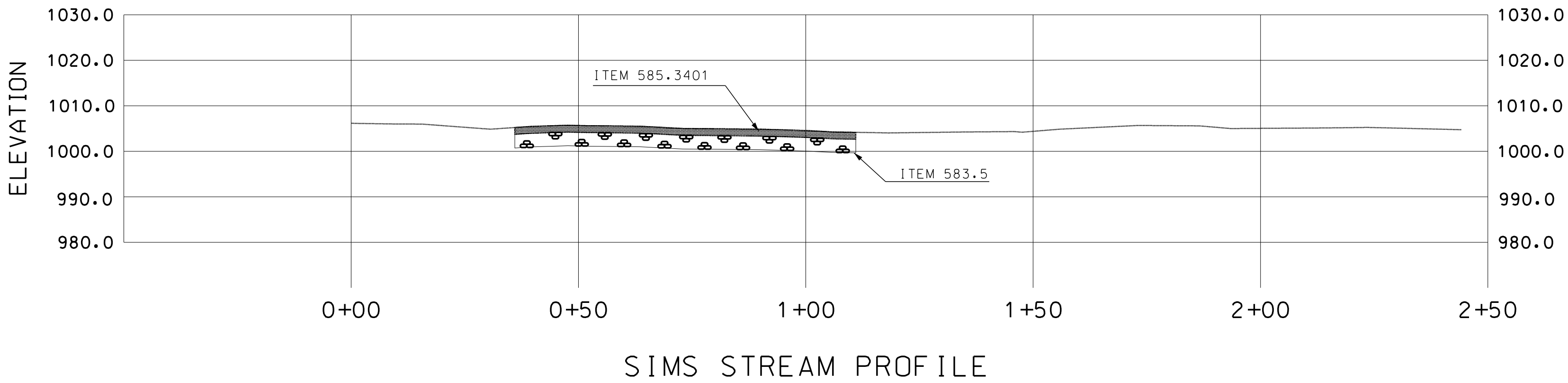
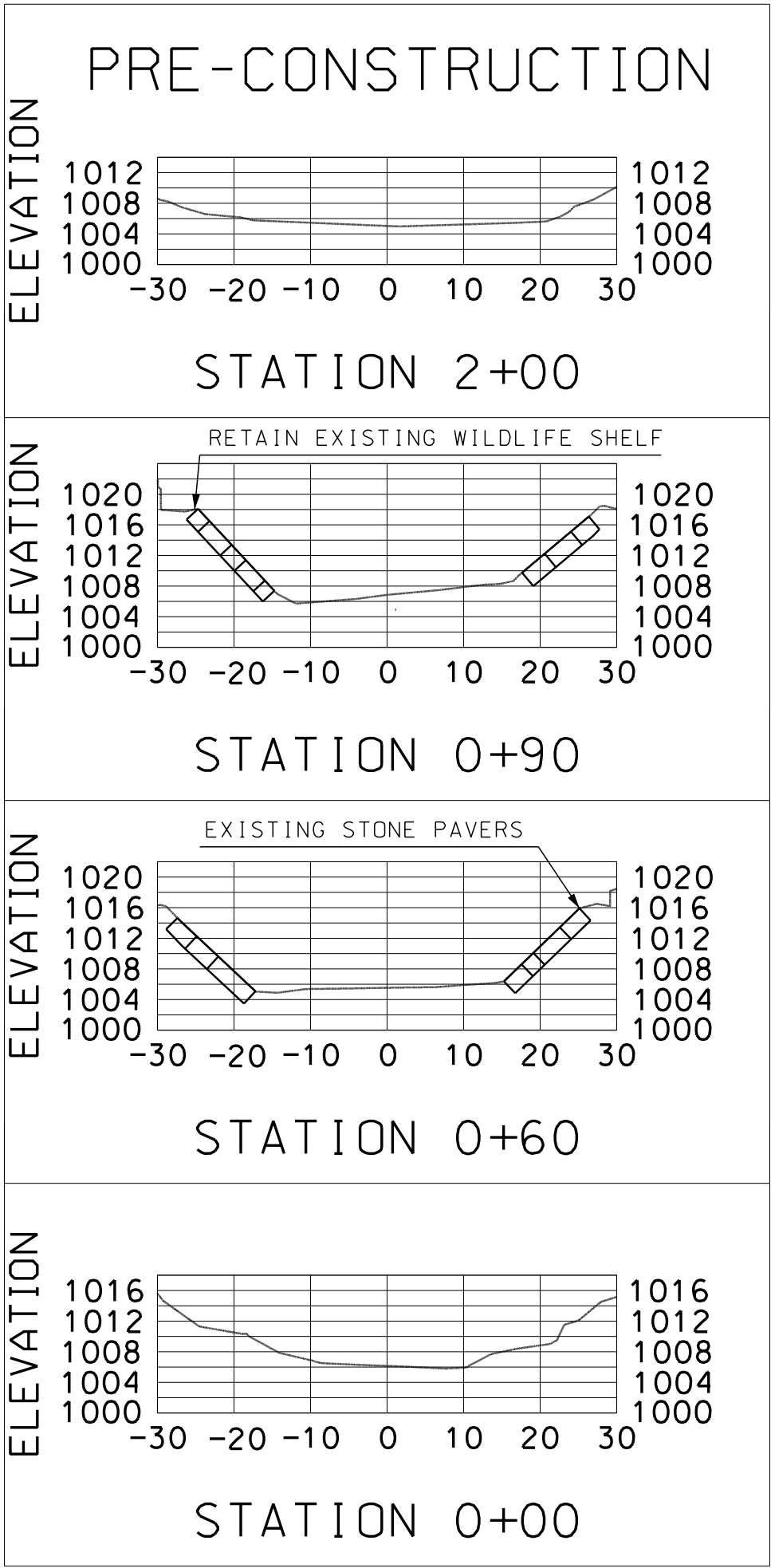
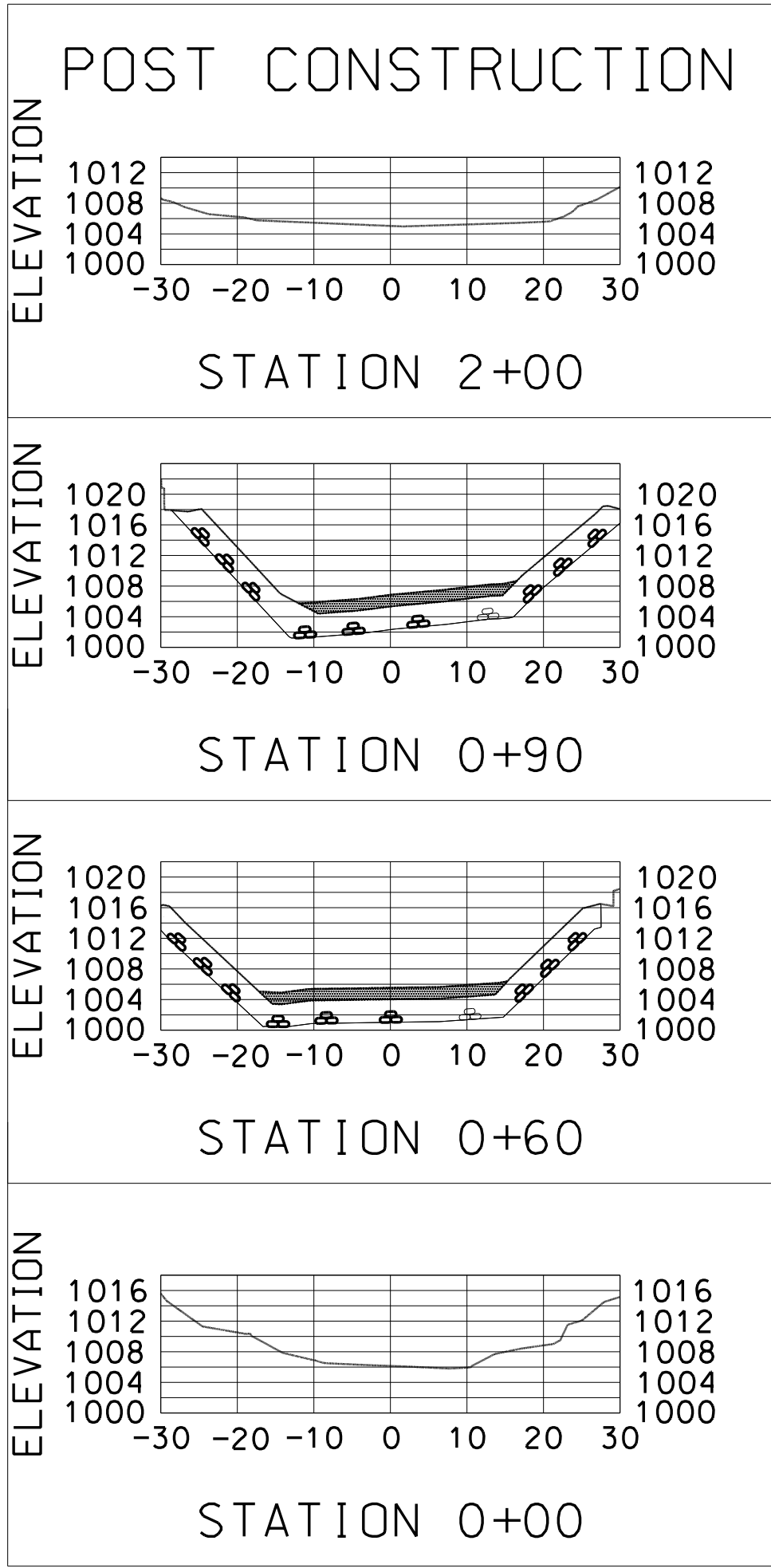
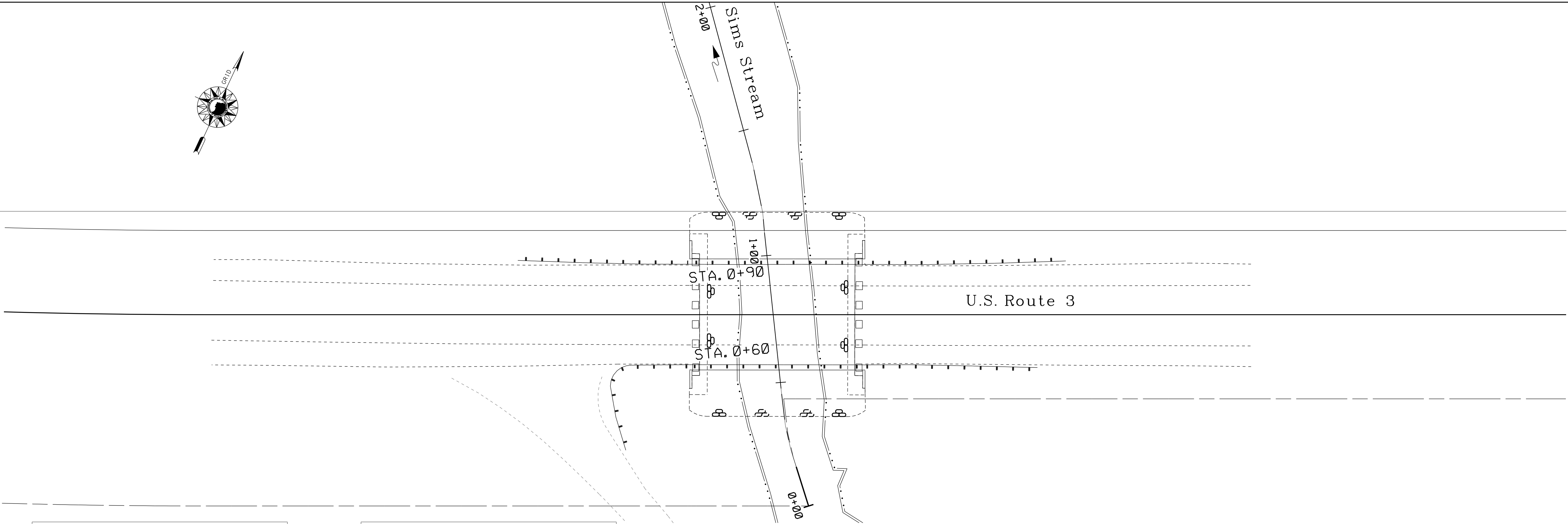
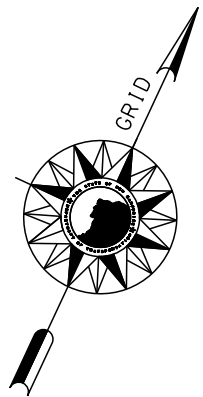
HEB
Engineers
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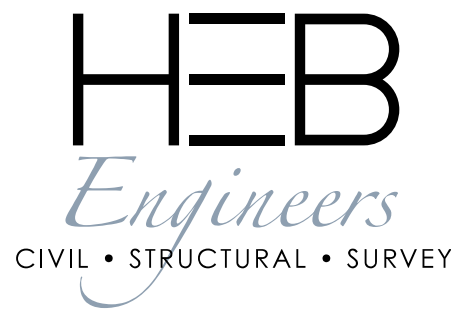
SHEET SCALE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
1" = 10'	42313WetPlan	42313	7	8

STATE OF NEW HAMPSHIRE	
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN	
Erosion Control Plan	

SDR PROCESSED		DATE		REVISIONS AFTER PROPOSAL	
		NUMBER	DATE	STATION	DESCRIPTION
NEW DESIGN		EVS	DATE 8/27/2020		
SHEET CHECKED		CRF	DATE 8/27/2020		
AS BUILT DETAILS			DATE		



- NOTE:
- EXISTING RIPRAP SHALL BE MODIFIED, AS NEEDED AS PART OF ITEM 583.002, TO MEET SPECIFICATIONS OF ITEM 583.5 AND SHALL BE INCORPORATED WITH AND THROUGHOUT NEW RIPRAP TO PROVIDE UNIFORM CHANNEL PROTECTION.
 - CHANNEL PROTECTION TO BE INSTALLED UNDERNEATH ALL AREAS INDICATED FOR SIMULATED STREAMBED MATERIAL.
 - SIMULATED STREAMBED MATERIAL IS INTENDED TO BE MATERIALS STOCKPILED FROM CHANNEL EXCAVATION. NO IMPORTED MATERIAL IS ALLOWED.
 - SIMULATED STREAMBED MATERIAL SHALL BE PLACED TO MATCH THE EXTENTS, ELEVATION, AND SLOPE AS THE EXISTING NATURAL CHANNEL MATERIAL.
 - SEE SHEET 9 OF CONSTRUCTION PLANS FOR TYPICAL SECTION.



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SHEET SCALE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
1" = 20'	42313ChannelSections	42313	8	8

STATE OF NEW HAMPSHIRE	
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN	
SIMS STREAM PROFILE & CROSS SECTIONS	

Attachment B.
NHDES Wetlands Permit Application - Page 5

Mitigation Pre-Application Meeting Date: Month: Day: Year: ☒ N/A - Mitigation is not required)**SECTION 11 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c).**

Have you submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent impacts that will remain after avoidance and minimization demonstration?

☐ Yes ☐ No☒ N/A - Mitigation is not required)**SECTION 12 - IMPACT AREA (Env-Wt 311.04(g))**

For each jurisdictional area that will be/has been impacted, provide square feet (SF) and, if applicable, linear feet (LF) of impact, and note whether the impact is after-the-fact (ATF; i.e., work was started or completed without required permitting).

For intermittent streams, the linear footage of impact is measured along the thread of the channel.

For perennial streams/ivers, the linear footage of impact is calculated by summing the lengths of disturbances to the channel and banks.

Permanent impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

Temporary impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

JURISDICTIONAL AREA	PERMANENT SF / LF		TEMPORARY SF / LF	
Forested Wetland	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Scrub-shrub Wetland	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Emergent Wetland	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Wet Meadow	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Intermittent Stream	<input type="text"/> / <input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/> / <input type="text"/>	<input type="checkbox"/> ATF
Perennial Stream or River	3435 / 80	<input type="checkbox"/> ATF	1037 / 18	<input type="checkbox"/> ATF
Lake / Pond	<input type="text"/> / <input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/> / <input type="text"/>	<input type="checkbox"/> ATF
Bank - Intermittent Stream	<input type="text"/> / <input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/> / <input type="text"/>	<input type="checkbox"/> ATF
Bank - Perennial Stream / River	1134 / 161	<input type="checkbox"/> ATF	446 / 41	<input type="checkbox"/> ATF
Bank/shoreline - Lake / Pond	<input type="text"/> / <input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/> / <input type="text"/>	<input type="checkbox"/> ATF
Tidal Waters	<input type="text"/> / <input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/> / <input type="text"/>	<input type="checkbox"/> ATF
Tidal Marsh	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Sand Dune	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Designated Prime Wetland	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Duly-established 100-foot Prime Wetland Buffer	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Previously-developed TBZ	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Docking - Lake / Pond	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Docking - River	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Docking - Tidal Water	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
Vernal Pool	<input type="text"/>	<input type="checkbox"/> ATF	<input type="text"/>	<input type="checkbox"/> ATF
TOTAL	4569 / 241		1483 / 59	

SECTION 13 - APPLICATION FEE (RSA 482-A:3, I)☐ MINIMUM IMPACT FEE: Flat fee of \$400lrn@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov